Docket No.: OHK-0007

## JC17 Rec'd PCTATO 24 JUN 2005

## **AMENDMENTS TO THE CLAIMS**

Claims 3, 5, 7, 9, 11 and 12 were amended to read as follows:

1. (Original) A compressor used in a refrigerating cycle, wherein:

in an area where a bottom surface and an inner circumferential surface of a housing connect with each other, said bottom surface forms an R-shaped portion and said inner circumferential surface forms a sloping portion or an R-shaped portion with the largest diameter of said R-shaped portion at said bottom surface equal to or larger than the internal diameter of said inner circumferential surface of said housing.

2. (Original) A compressor used in a refrigerating cycle wherein:

in an area where a bottom surface and an inner circumferential surface of a housing connect with each other, said bottom surface forms an R-shaped portion and said inner circumferential surface forms a sloping portion or an R-shaped portion with said sloping portion of said inner circumferential surface achieving a substantially circular conic contour connecting the largest diameter portion of said R-shaped portion at said bottom surface and said inner circumferential surface.

- 3. (Currently amended) A compressor according to claim 1<del>or 2</del>, wherein: said R-shaped portion at said bottom surface measures in a 2 to 10mm range.
- 4. (Cancelled)
- 5. (Currently amended) A compressor according to claim 1 or 2, wherein: at least one of components constituting a housing and internal mechanisms is formed by using a tough material achieving a tensile strength greater than 800 N/mm~ at normal temperature.

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6. (Original) A compressor according to claim 5, wherein: the tensile strength of said tough material at maximum operating temperature is equal to or greater than 80% of the tensile strength at normal temperature.

- 7. (Currently amended) A compressor according to claim 5 or 6, wherein: said tough material is cast iron.
- (Original) A compressor according to claim 7, wherein:
  said cast iron has undergone an austempering treatment and has a bainitic structure.
- 9. (Currently amended) A compressor according to claim 5 or 6, wherein: said tough material is a titanium alloy.
- (Original) A compressor according to claim 9, wherein:
  said titanium alloy has undergone a solution heat treatment and an aging treatment.
- 11. (Currently amended) A compressor according to claim 5 or 6, wherein: said tough material is manufactured through casting.
- 12, (Currently amended) A compressor according to claim 5 or 6, wherein: said tough material is manufactured through a powder metallurgical method.
- 13. (Original) A compressor according to any of claims 1 through 12, wherein: carbon dioxide is used as a coolant.

## **CLAIMS**

1. A compressor used in a refrigerating cycle, wherein:

in an area where a bottom surface and an inner circumferential surface of a housing connect with each other, said bottom surface assumes an R-shaped portion and said inner circumferential surface forms a sloping portion or an R-shape portion.

- A compressor according to claim 1, wherein:
  said R-shaped portion at said bottom surface measures in a 2 to 10mm range.
- 3. A compressor according to claim 1 or claim 2, wherein:

the largest diameter of said R-shaped portion of said bottom surface is equal to or greater than the internal diameter of said inner circumferential surface of said housing.

4. A compressor according to any of claims 1 through 3, wherein:

said sloping portion assumed that said inner circumferential surface is achieved as a substantially circular conic contour connecting the largest diameter portion of said R-shaped portion at said bottom surface and said inner circumferential surface.

5. A compressor used in a refrigerating cycle, wherein:

at least one of components constituting a housing and internal mechanisms is formed by using a tough material achieving a tensile strength greater than 800 N/mm<sup>2</sup> at normal temperature.

6. A compressor according to claim 5, whrein:

the tensile strength of said tough material at maximum operating temperature is equal to or greater than 80% of the tensile strength at normal temperature.

- 7. A compressor according to claim 6 or 7, whrein: said tough material is cast iron.
- 8. A compressor according to claim 7, wherein: said cast iron has undergone an austempering treatment and has a bainitic structure.
- 9. A compressor according to claim 5 or 6, whrein: said tough material is a titanium alloy.
- 10. A compressor according to claim 9, wherein:said titanium alloy has undergone a solution heat treatment and an aging treatment.
- 11. A compressor according to claim 5 or 6, whrein: said tough material is manufactured through casting.
- 12. A compressor according to claim 5 or 6, wherein: said tough material is manufactured through a powder metallurgical method.
- 13. A compressor according to any of claims 1 through 12, wherein: carbon dioxide is used as a coolant.